



High Frequency Dimming Options for Ansell Products

1. General

Standard HF control gear is NOT dimmable in any form. To enable any fluorescent lamp or compact fluorescent lamp to be dimmed, then suitable HF ballasts must be used in the luminaires.

- Dimming range from 3% to 100%
- Soft start within 0.3 seconds
- automatic safe shutdown of defective lamps
- automatic safe shutdown of lamps at end of life
- automatic restart after lamp replacement
- available with emergency options
- 220V to 240V input voltage
- 50,000 hour ballast life

DIGITAL DIMMING (DSI) – These ballasts require a digital (DSI) signal from an external source to instruct the ballast to switch ON / OFF and dim. A Digital Serial Interface (DSI) translates the signals from the controller and operates the ballast. This system is commonly employed in larger installations, with mood set controllers or energy management systems. Digital dimming is also used for Infra-Red remote control, PIR presence detection and automatic daylight sensing. Figure 2 illustrates the field wiring required for digital dimming. Each luminaire requires a 3 core mains supply (L E N), and an additional DSI signal cable, normally a 2 core 0.75mm² flexible cable (D1 & D2). This is looped around any luminaires to be dimmed together – please check with Ansell technical as there is a maximum number of ballasts which can be connected together, dependant on lamp type and wattage. *An additional unswitched live is required if the luminaire incorporates emergency control gear.*

